

—SCALE $\frac{1}{16}$ INCH TO A FOOT—



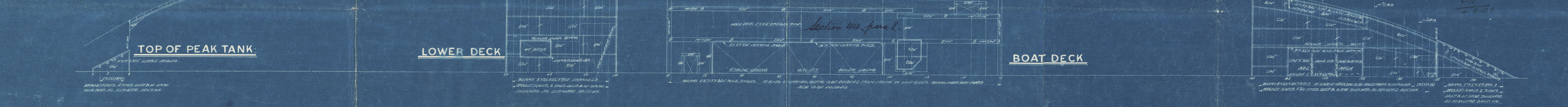
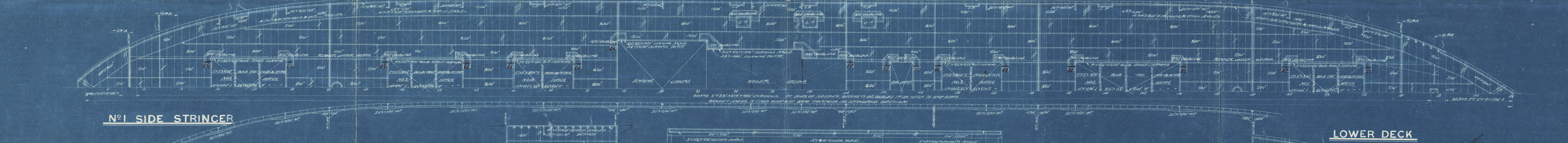
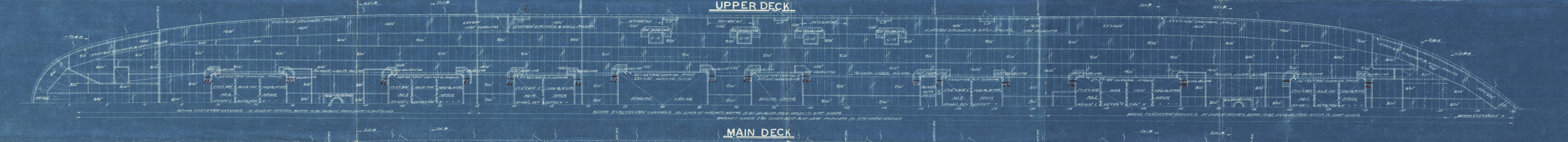
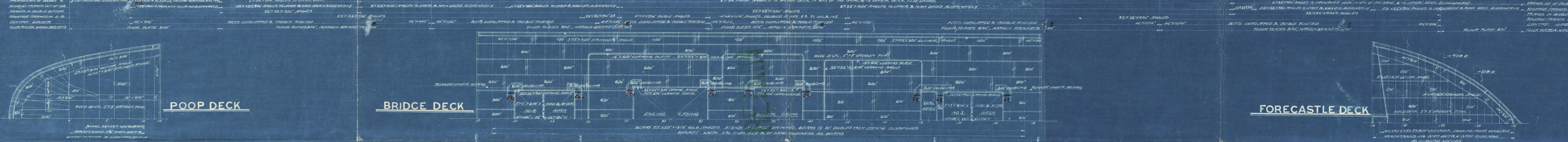
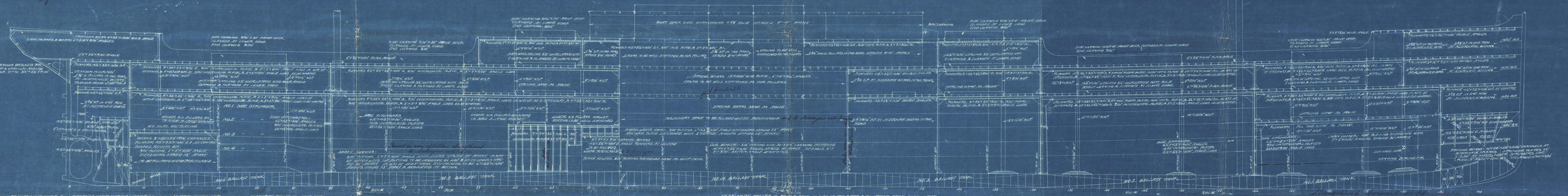
Nºs 297-8-9

CONSTRUCTION PLAN

SCALE 1/4 INCH TO A FOOT



PROFILE

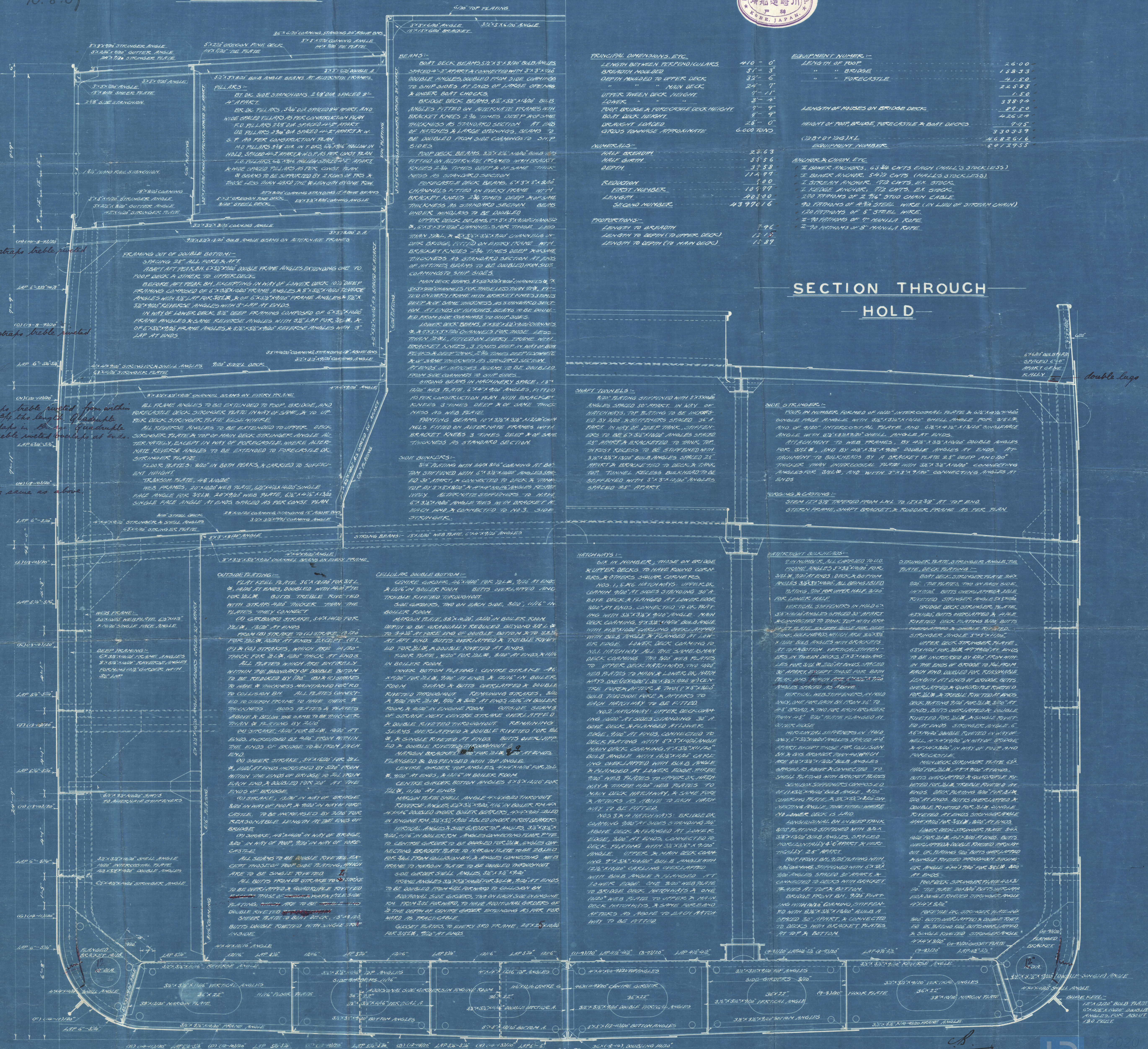


Nº 297-S-9

MIDSHIP SECTION

SCALE 1/2 INCH TO A FOOT

SECTION THROUGH BOILER ROOM



10.8.07

No1.

STEEL BOILERES *for* BUILDERS No 297, 298 & 299.

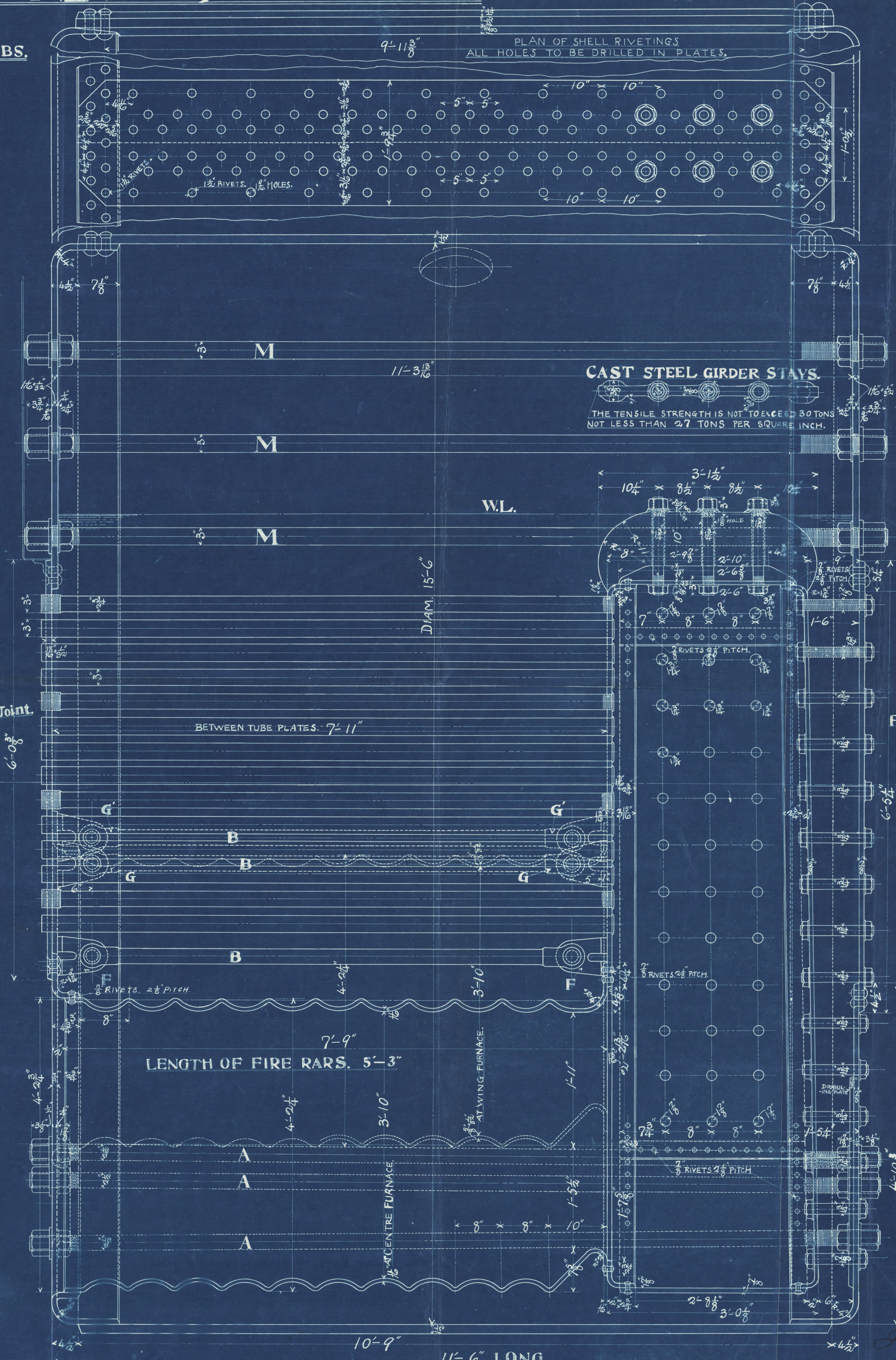
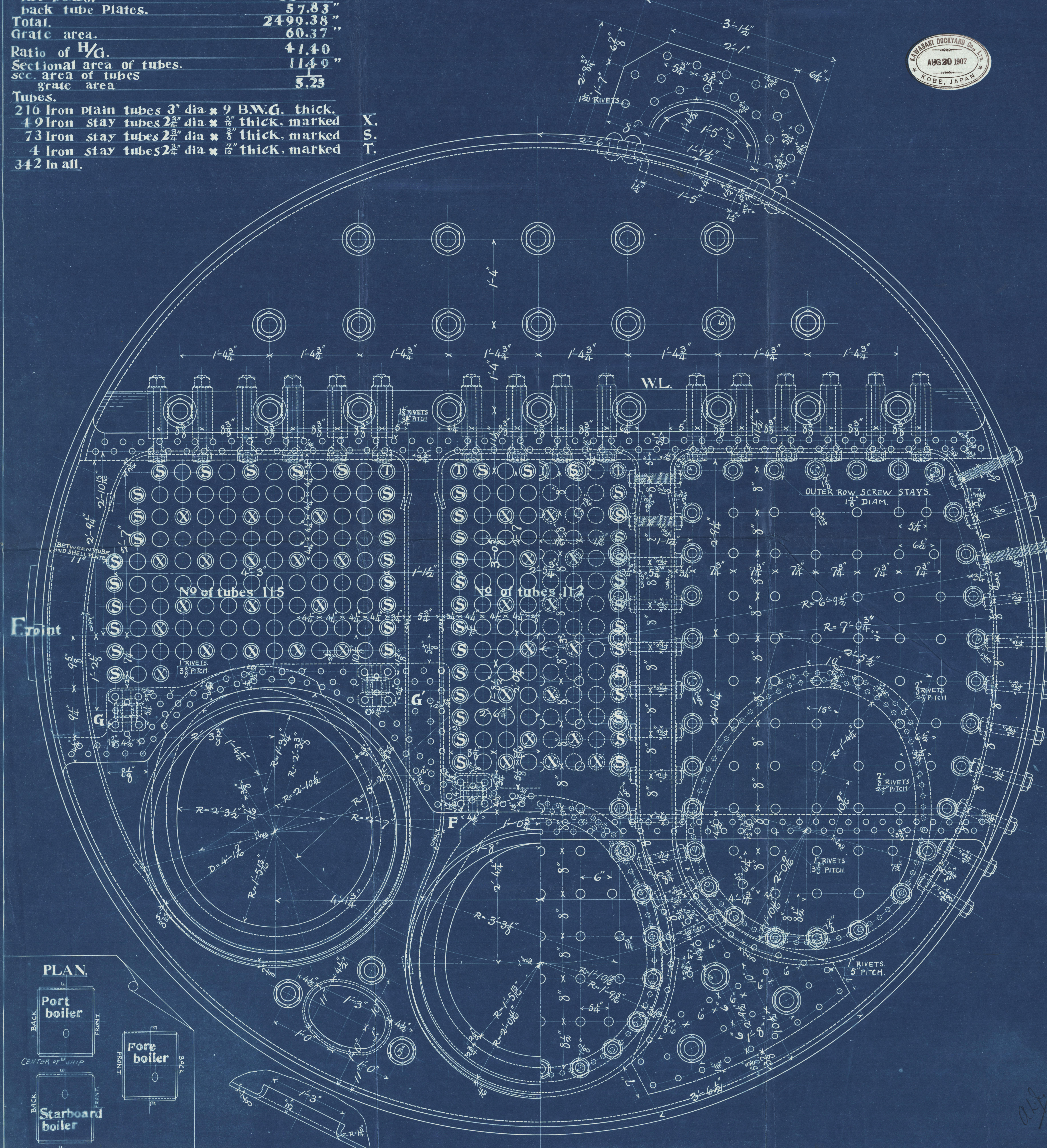
MINIMUM TENSILE STRENGTH OF SHELL PLATES 28 TONS	PER SQUARE INCH
MAXIMUM TENSILE STRENGTH OF SHELL PLATES 32 TONS	PER SQUARE INCH

Heating surface.	
tubes.	2061.18
flues.	156.14
fire boxes.	224.23
back tube Plates.	57.83
Total.	2499.38
Grate area.	60.37
Ratio of $\frac{H}{G}$.	41.40
Sectional area of tubes.	114.9
sec. area of tubes	
grate area	5.25

216	Iron	pain tubes	3 $\frac{1}{8}$ " dia *	9 B.W.G.	thick.	
49	Iron	stay tubes	2 $\frac{3}{8}$ " dia *	$\frac{5}{16}$ "	thick, marked	X.
73	Iron	stay tubes	2 $\frac{1}{2}$ " dia *	$\frac{3}{8}$ "	thick, marked	S.
4	Iron	stay tubes	2 $\frac{3}{8}$ " dia *	$\frac{7}{16}$ "	thick, marked	T.
342	In all.					

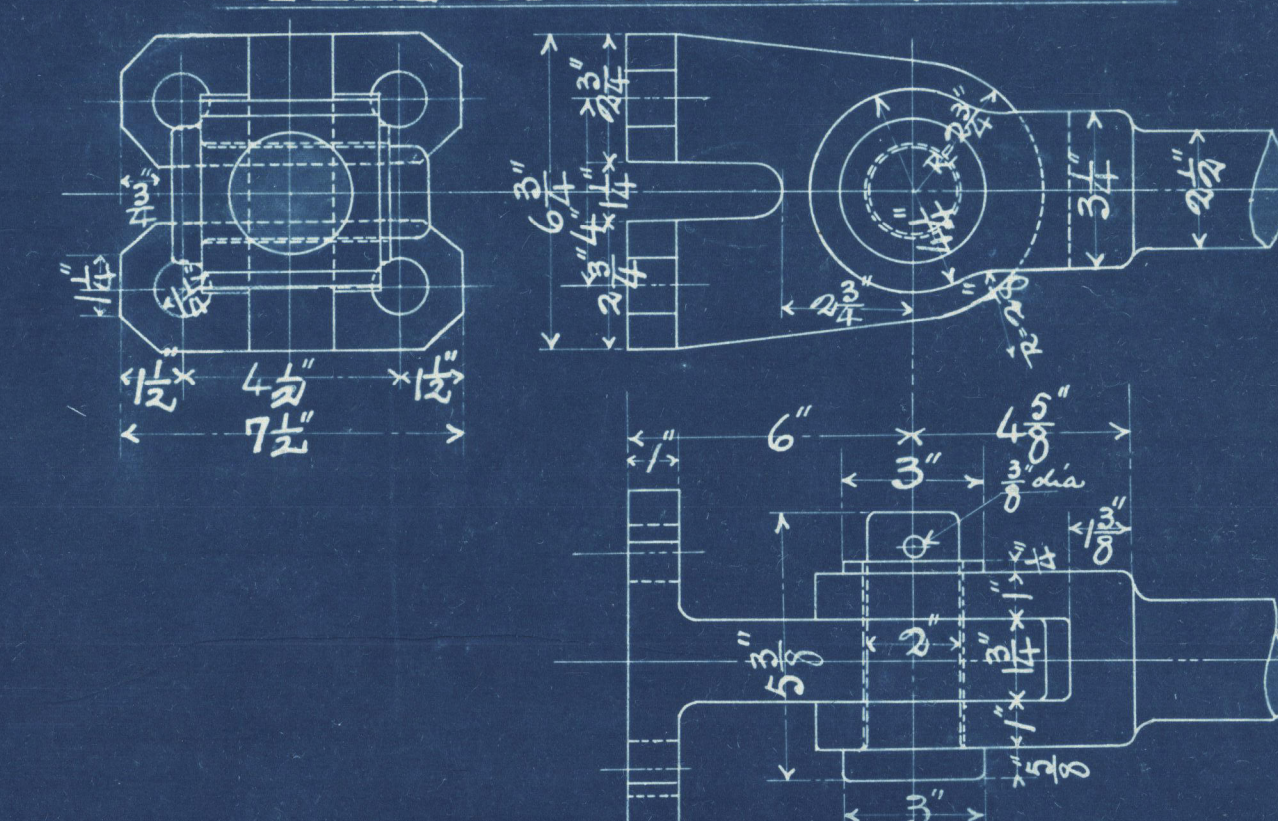
DIA 15'-6" x 11'-6" LONG,
WORKING PRESSURE 200 LBS.

SCALE 1½ INCH TO A FOOT.

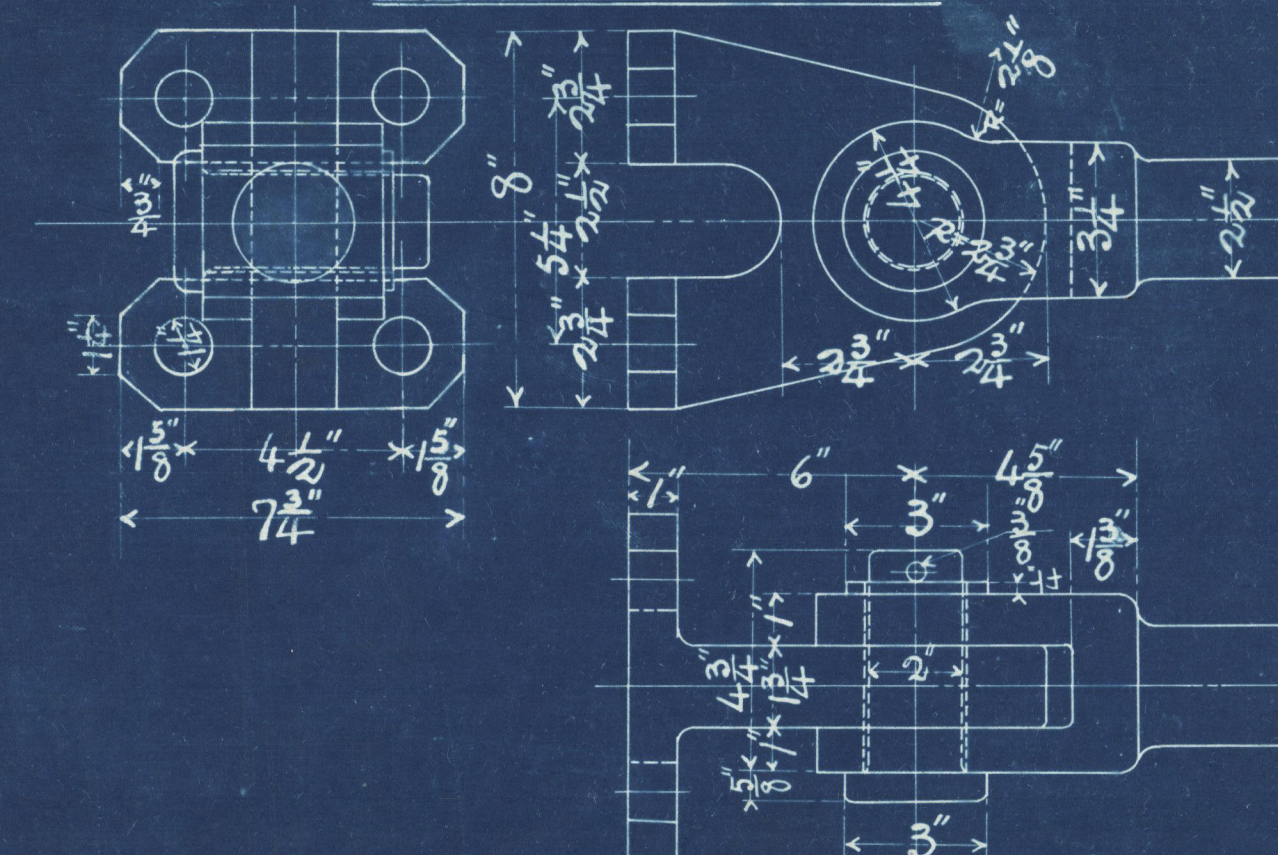


SCALE 3 INCHES TO A FOOT.

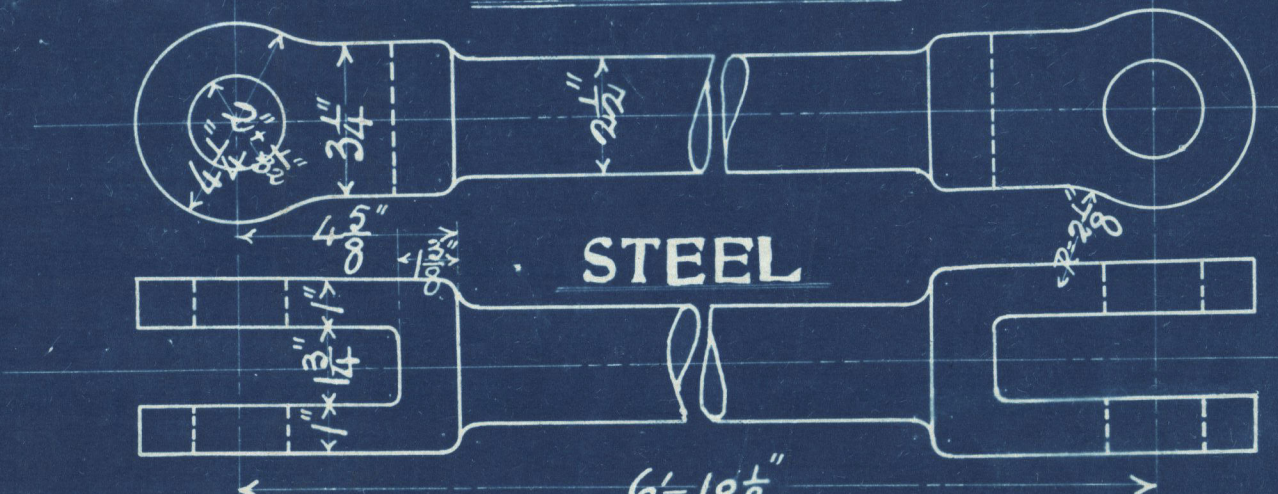
STEEL STAYS MARKED F.



MARKED G. G.

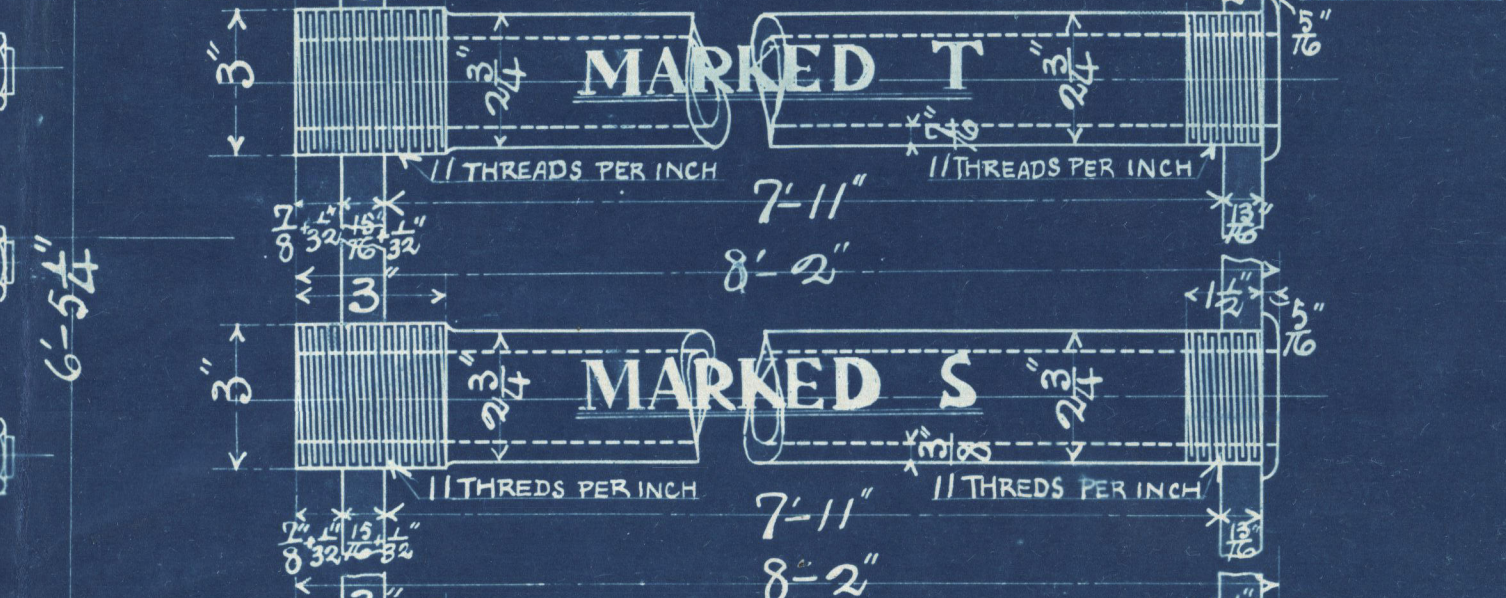


MARKED B.



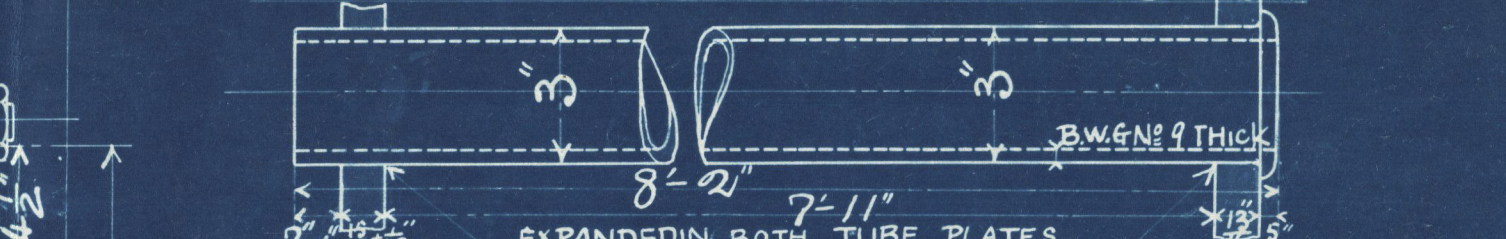
LAP WELDED IRON STAY TUBES

FRONT: 3" 8'-2" BACK: 14"



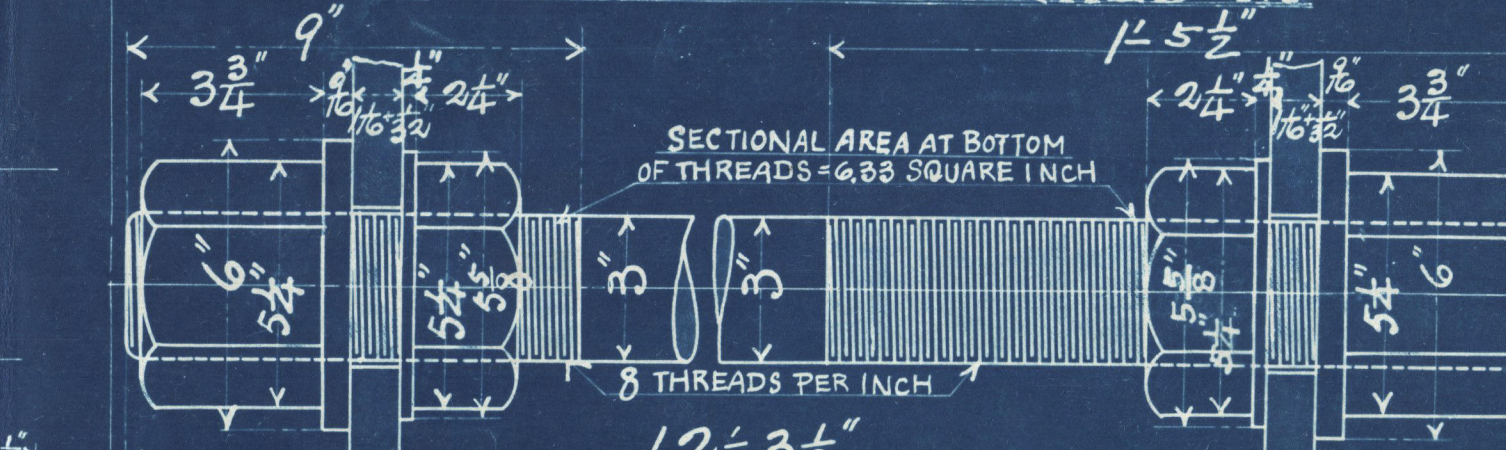
3" $\frac{3}{4}$ " MARKED X. $\frac{3}{4}$ "

LAP WELDED IRON PLAIN TUBES.



STEEL STAYS MAR

STEEL STAYS MARKED M.



$3\frac{1}{8}$ MARKED A

8 THREADS PER INCH

$$5 \quad 4\frac{1}{2} \quad 4\frac{1}{2} \quad 5 \quad 2\frac{1}{2} \quad 2\frac{1}{2}$$

SECTIONAL AREA AT BOTTOM OF THREADS = 4.30
- 1.2' - 1.3" SQUARE INCH

STEEL SCREWED STAYS.

First Made for

SECTIONAL AREA
AT BOTTOM OF
THREADS = 2.43

SQUARE INCH

INSPECTED BY

SECTIONAL AREA
AT BOTTOM OF
THREADS = 2.08

SQUARE INCH

1890

KAWASAKI DOCK YARD Co. Ltd.	
First Made for	
Date of Del.	AUG. 20 TH 1940
Began by	
Finished by	
Traced by	
Checked by	
Inspected by	<i>Y. Ogawa</i> 20
Approved by	
Drawing No.	297, 298 AND 299